

# New RM and room-temperature nematic RM mixture for applications

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RM plays more and more important role in optical applications, such like the compensation film, the tunable lens film ...etc. On the other hand, RM has been employed for providing pre-tilt angle, enhancing anchoring energy or increasing contrast ratio in display field. New structure of RM and room temperature Nematic RM mixture has been developed. The room temperature RM mixture could be used by room temperature process instead of high temperature (60-80 °C) process. Room temperature process extends the process window and improves uniformity and stability of the optical film. The LC mixture with the RM can enhance the contrast ratio in IPS mode. In this report, new structure of RM and the RM mixture will be published and some experimental results will be discussed.

## References

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## Speaker Biography

[Chao-Yuan \(Eric\) Chen](#) is the general manager of Optronics Business Group at HCCH (Jiangsu Hecheng Display Technology Co., Ltd), where his group focus on development of LC mixture and related optical device design. Previously, he led the 3D technology and total solution team, responsible for 3D optics, product design and system/software solution for AUO's 3D products. He has been the visiting scholar and the Post Doc. in Physics Department, U.C. Berkeley, focusing on the photo-alignment of LC and non-linear optics during 2005~2006. He has authored more than 30 publications, and has more than 100 filed/issued patents. In 2012, he had the honor to win the 1000people-plan of central organization department, China. He is the program sub-committee member of SID, vice-president of Nanjing FPD industry association, and program committee member of IDMC, Industry Professor of Nanjing University, Jiangsu Province.